

ACC NR: AR6035238

block diagrams of the operational device for these two cases are given. Structures of the operational device are optimal in the sense of that total probability of error is minimal, since the recognition signal is determined in the channel, whose probability is maximal. Orig. art. has: 2 figures and a bibliography of 5 titles.
[Translation of abstract] [NT]

SUB CODE: 12, 06, 09

Card 2/2

YASIEVICH, V., kand.arkhitektury; PROTSENKO, O., arkhitekt, prepodavatel';
PORSIN, Yu., kand.tekhn.nauk, dotsent; KAMYSHNYY, N., doktor tekhn.
nauk, prof.; LEVIN, I., kand.tekhn.nauk, dotsent; FRIDKIN, B., student;
SEKACHEV, Yu., student; MILEVSKIY, V., student; VMIRNOV, A., student;
KORNEYEVA, S., studentka; VYGODSKIY, B., student; MOSHKOV, V., student

What kind of program for the course in "Industrial Design?"

Opinion of teachers and students. Tekh.est. no.5:20-21 My '65.

-(MIRA 18:6)

1. Kafedra nachertatel'noy geometrii i kafedra grafiki Leningradskoy
tekhnicheskoy akademii imeni Kirova (for Porsin). 2. Moskovskaya
vyssheye tekhnicheskoye uchilishche imeni Baumana (for Kamyshnyy,
Korneyeva, Vygodskiy, Moshkov). 3. Moskovskiy avtomekhanicheskiy
institut (for Levin, Smirnov). 4. Leningradskiy institut
aviapriborostroyeniya (for Fridkin, Sekachev, Milevskiy).

YASKAZHUK, A. S.

Yaskazhuk, A. S.

"The authority of the teacher and methods of creating and strengthening it." Min Education Ukrainian SSR. Kiev State Pedagogical Institute imeni A. M. Gor'kiy. Kiev, 1956 (Dissertation for the degree of Candidate in Pedagogical Sciences)

Knizhnaya letovis

No. 15, 1956. Moscow

ARONOV, I., kand. tekhn. nauk (Kiyev); KHILINSKAYA, L., inzh. (Kiyev);
YASKE, M., inzh. (Kiyev)

Using the heat of flue gases. Zhil.-kom. khoz. 12 no. 5:31
My '62. (MIRA 15:10)

(Waste heat) (Flue gases)

ARONOV, I.Z.; KHILINSKAYA, L.G.; KISELEV, M.Ye.; YASKE, M.F.

Improving the utilization of natural gas in boiler rooms.
Prom.energ. 16 no.9:32-33 8 '61. (MIRA 14:8)
(Gas as fuel)

S/058/62/000/007/061/068
A062/A101

AUTHORS: Vagner, S. D., Yelesova, T. D.; Yaskelyaynen, F. S.

TITLE: Optical properties of the positive column of a d.c. discharge in helium

PERIODICAL: Referativnyy zhurnal, Fizika, no. 7, 1962, 54, abstract 7Zh366
("Uch. zap. Karel'sk. ped. in-t", 1961, v. 11, no. 1, 75 - 81)

TEXT: The relative intensities of 10 He lines were measured in the pressure range 0.12 - 0.74 mm Hg at various values of the discharge current. At the same time the electric parameters of the plasma were measured by probes. The intensity was measured by a photographic method on two characteristic curves. At the analysis of the probe characteristics, the method of processing the ion portion of the characteristics and the beginning of its electron portion was used. The speed distribution of the electrons was supposed to be of the Maxwell form. The electron temperature was determined from the diagram of the dependence between the logarithm of the derivative of the total current on the probe and the voltage between the probe and the anode. In case of a large photocurrent from

Card 1/2

Optical properties of the...

3/058/62/000/007/051/068
A062/A101

the surface of the probe, the concentration of the charged particles, determined from the ion portion of the characteristic, will yield too high results. However, the comparison of concentrations found from the ion and electron portions of the characteristics shows that the photoeffect can be neglected. The results of the measurement show that the intensity of all investigated lines increases with the increase of the discharge current. At high pressures a saturation effect is observed that may be explained by the decrease of the electron temperature. The agreement between the calculated values of the relative intensities and the experimental data shows that the disactivation of the excited levels is due chiefly to collisions between excited atoms and electrons and collisions between excited and normal atoms resulting in the production of molecular ions. There are 15 references.

Yu. Kutev

[Abstracter's note: Complete translation]

Card 2/2

DOROSINSKIY, M., kapitan teplokhoda "Il'ich"; YASKEVICH, A., kapitan dal'nego
plavaniya.

New manual on seamanship. ("Seamanship" part 1. ed. I.I. Kirdan and
others. Reviewed by M. Dorosinskiy, A. Iaskevich). Mor. flot 16 no. 9:
30-32 S '56. (Seamanship) (MLRA 9:10)
(Kirdan, I.I.)

YASKEVICH
MISHIN, M.; YASKEVICH, A.

Use of the radar station "Neptune" for pilot guiding of vessels.
Mor.flot 17 no.9:26-27 S '57. (MIRA 10:11)

1. Kapitan Ust'-Kamchatskogo porta (for Mishin).
 2. Starshiy inzhener-kapitan Upravleniya glavnogo revizora Ministerstva morskogo flota SSSR (for Yaskevich).
- (Radar in navigation) (Ust-Kamchatsk--Pilot guides)

YASKEVICH, A., starshiy inzhener-kapitan; ZURABOV, Yu., starshiy inzh.

Revision of the International Signal Code. Mor. flot 22 no.8:
25-26 Ag '62. (MIRA 15:7)

1. Upravleniye glavnogo revizora po bezopasnosti moreplavaniya
Ministerstva morskogo flota (for Yaskovich). 2. Tsentral'nyy
nauchno-issledovatel'skiy institut morskogo flota (for Zurabov).
(Signals and signaling)

10
9
8
7
6
5
4
3
2
1

100 AND 4TH EIGHTS

1ST AND 3RD EIGHTS

PROCESSES AND PROPERTIES INDEX

10
9
8
7
6
5
4
3
2
1

YASKEVICH, A.
18

The Influence of Nitrogen on the Properties of Rustless Steels. A. Mainarin, A. Yaskevich and I. Paleov. (Iron and Steel Institute, 1945, Translation Series, No. 215). An English translation is presented of a paper which appeared in the Bulletin de l'Académie des Sciences de l'U.R.S.S., 1945, No. 3-4, pp. 71-77. It contains an account of investigations of methods of alloying steel with nitrogen, and of the effect of nitrogen on the properties of stainless steels. Heat-treated cold-rolled steel containing 17-18% of chromium, 8% of nickel and 0.15-0.20% of nitrogen is equivalent to 18/8 stainless steel in its mechanical properties and corrosion resistance. The porosity of ingots increases with increase in the nitrogen/chromium ratio in the steel; if this ratio is greater than 0.01 there will be blowholes in the steel.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOLS

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CLASSIFY ON ONLY ONE

OPEN

MATERIALS INDEX

10
9
8
7
6
5
4
3
2
1

100 AND 4TH EIGHTS

1ST AND 3RD EIGHTS

PROCESSES AND PROPERTIES INDEX

10
9
8
7
6
5
4
3
2
1

COMMON ELEMENTS		COMMON VALUABLES INDEX	
1ST AND 2ND LETTERS		1ST AND 2ND LETTERS	
<p>79. PRODUCTION OF SILICOALUMINIUM FROM ASH OF THE MOSCOW BASIN COALS. Yaskovich, A. and Samarin, A. M. (Bull. Acad. Sci. U.R.S.S., Cl. Sci. Tech., 1946, 237-41) The ash of the Moscow basin coals contains SiO₂ 42.30, Al₂O₃ 39.56, CaO 0.90, MgO 2.79, Fe₂O₃ 5.75, and SO₃ 5.21%. From it can be made an al-Si alloy containing more than 40% of Si and up to 30% of Al. The chemical composition of the alloy and the yields of Al and Si depend on the composition of ash. An alloy containing 31% of Al was obtained from ash containing 42% of Al₂O₃. C.A.</p>			
<p>ASH, SLA METALLURGICAL LITERATURE CLASSIFICATION</p>			
AUTHOR INDEX		SUBJECT INDEX	
1ST AND 2ND LETTERS		1ST AND 2ND LETTERS	

YASKEVICH, A.
CA

9

Influence of columbium and titanium on stainless-steel properties. A. Yaskevich and A. M. Samarin (Moscow Steel Inst. Birm Sialina). *Stal. anal. sv. P.R.S.S.*, (Sov. let. tek. 1945, 205 602). Stainless steels were made (large amt. of Ti and (or) Cb. The intercryst. corrug. variable amts. of Ti and (or) Cb. The intercryst. corrosion measured by bending tests after boiling the alloys in Hatfield reagents was highest in Cb-contg. steels. To measure chem. resistivity, samples were boiled in hot HNO₃. Ti alloys had an increasing loss of wt. with increasing Ti content, whereas Cb in concn. of 0.53-1.68% did not lower the chem. resistance. S. Pakovsk

ASTM-A-264 METALLURGICAL LITERATURE CLASSIFICATION

1945-1946

1947-1948

1949-1950

1951-1952

1953-1954

1955-1956

1957-1958

1959-1960

1961-1962

1963-1964

1965-1966

1967-1968

1969-1970

1971-1972

1973-1974

1975-1976

1977-1978

1979-1980

1981-1982

1983-1984

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1987-1988

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1991-1992

1993-1994

1995-1996

1997-1998

1999-2000

2001-2002

2003-2004

2005-2006

2007-2008

2009-2010

2011-2012

2013-2014

2015-2016

2017-2018

2019-2020

2021-2022

2023-2024

2025-2026

2027-2028

2029-2030

2031-2032

2033-2034

2035-2036

2037-2038

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2087-2088

2089-2090

2091-2092

2093-2094

2095-2096

2097-2098

2099-2100

2101-2102

2103-2104

2105-2106

2107-2108

2109-2110

2111-2112

2113-2114

2115-2116

2117-2118

2119-2120

2121-2122

2123-2124

2125-2126

2127-2128

2129-2130

2131-2132

2133-2134

2135-2136

2137-2138

2139-2140

2141-2142

2143-2144

2145-2146

2147-2148

2149-2150

2151-2152

2153-2154

2155-2156

2157-2158

2159-2160

2161-2162

2163-2164

2165-2166

2167-2168

2169-2170

2171-2172

2173-2174

2175-2176

2177-2178

2179-2180

2181-2182

2183-2184

2185-2186

2187-2188

2189-2190

2191-2192

2193-2194

2195-2196

2197-2198

2199-2200

2201-2202

2203-2204

2205-2206

2207-2208

2209-2210

2211-2212

2213-2214

2215-2216

2217-2218

2219-2220

2221-2222

2223-2224

2225-2226

2227-2228

2229-2230

2231-2232

2233-2234

2235-2236

2237-2238

2239-2240

2241-2242

2243-2244

2245-2246

2247-2248

2249-2250

2251-2252

2253-2254

2255-2256

2257-2258

2259-2260

2261-2262

2263-2264

2265-2266

2267-2268

2269-2270

2271-2272

2273-2274

2275-2276

2277-2278

2279-2280

2281-2282

2283-2284

2285-2286

2287-2288

2289-2290

2291-2292

2293-2294

2295-2296

2297-2298

2299-2300

2301-2302

2303-2304

2305-2306

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2477-2478

2479-2480

2481-2482

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2485-2486

2487-2488

2489-2490

2491-2492

2493-2494

2495-2496

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2499-2500

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2603-2604

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2967-2968

2969-2970

2971-2972

2973-2974

2975-2976

2977-2978

2979-2980

2981-2982

2983-2984

2985-2986

2987-2988

2989-2990

2991-2992

2993-2994

2995-2996

2997-2998

2999-3000

197 AND 198 GROUPS										PROCESSES AND PROPERTIES UNDER										199 AND 200 GROUPS										
YASKOVICH, A.																														18
<p>THE INFLUENCE OF NIOBIUM AND TITANIUM ON STAINLESS STEEL. A. Yas- kovitch and A. Samarin. (Bulletin de l'Académie des Sciences, U.R.S.S., Classe des Sciences Techniques, 1946, no. 4, pp 593-602; (Abstract) Centre de Documentation Siderurgique, Bulletin Analytique, 1948, vol 5, Feb., p 47). The authors have studied the influence of niobium on the strength of metal, and note that it increases resis- tance to intercrystalline corrosion and does not diminish resistance to chemical corrosion. It does not affect tensile strength and only slightly reduces elongation value.</p>																														
I.V. Stalin Moscow Steel Inst																														
<p>ASM-514 METALLURGICAL LITERATURE CLASSIFICATION</p> <p>BOOKS, SERIALS, ETC.</p>																														

✓ The influence of niobium and titanium on the properties of stainless steels. A. M. Samarin and A. A. Vaskevich. *Metall. Engng. Ser.* 1958, No. 10, 107-11. (See also 1958, No. 10, 107-11.)

A comparison of the properties of stainless steels with 18% Cr and around 10% Ni, with and without about 1% Nb or 0.6% Ti show that the mech. properties after tempering and annealing were practically the same at 20 and 600°. The plasticity of Nb steel at 800° quenched from 1150° and tempered at 650° was 1.5-2 times lower than of the similarly treated Ti steel. Long tempering of the Nb steel at 800° raises its plasticity at that temp. to that of the Ti steel. Nb imparts better intercryst. corrosion

properties than Ti. The acid resistance of hardened stainless steel with and without Nb and Ti is high, and practically the same, the losses in boiling HNO₃ not exceeding 0.5 g/sq m./hr. The annealed Nb steel is more acid resistant than the Ti steel or the ordinary stainless steel. Nb imparts better weldability to the steel than Ti, the seam is denser, more resistant to intercryst. corrosion, has a 4 times greater resistance to HNO₃, and is more plastic.

A. M. Samarin

YASKEVICH, A.A., dotsent, kandidat tekhnicheskikh nauk.

Effect of deoxidation conditions on the content of nonmetallic
inclusions in steel. Sbor. Inst. stali no.35:271-282 '56.
(MLBA 10:8)

1. Kafedra elektrometallurgii.
(Steel--Metallurgy) (Steel--Defects)

YASKEVICH, A.A., dotsent, kandidat tekhnicheskikh nauk; FILIPPOV, A.P.,
dotsent, kandidat tekhnicheskikh nauk; SAMARIN, A.M.

Lamination of chromium-nickel alloys in thin sheets. Sbor. Inst.
stali no.35:320-326 '56. (MLRA 10:8)

1. Kafedra elektrometallurgii. 2. Chlen-korrespondent AN SSSR (for
Samarin).

(Steel--Defects)
(Chromium-nickel alloys--Metallography)

YASKEVICH, A., kapitan dal'nego plavaniya

Limited visibility and the magnitude of moderate speed. Mor. flot
21 no.4:17-19 Ap '61. (MIRA 14:4)

(Rule of the road at sea)

YASKEVICH, A.A.; SAMARIN, A.M.

Effect of nitrogen and boron on the properties of austenitic stainless steel. Izv. vys. ucheb. zav.; chern. met. 5 no.7: 97-102 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.
(Steel, Stainless--Metallurgy)

YASKEVICH, A.

Maintaining the logbook. Mor. flot. 24 no.11:25-26 31 '64.

(MIRA 18:8)

1. Zamestitel' nachal'nika otdela bezopasnosti Glavnogo
upravleniya moreplavaniya Ministerstva morskogo flota.

L 08292-67 EWP(m)/EWP(t)/ETI IJP(c) JD/JG/WB
ACC NR: APO032051 SOURCE CODE: UR/0148/66/000/009/0062/0065 30
33
B

AUTHOR: Neygebauer, G. O.; Yaskevich, A. A.; Buryakov, Yu. A.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut i splavov)

TITLE: Corrosion resistance of austenitic stainless steel containing nitrogen and the effect produced on it by rare-earth metals 16 16 27

SOURCE: IVUZ. Chernaya metallurgiya, no. 9, 1966, 62-65

TOPIC TAGS: austenitic stainless steel, chromium nickel stainless steel, steel intergranular corrosion, cerium containing steel, lanthanum containing steel, neodymium containing steel, praseodymium containing steel, nitrogen containing steel, austenitic steel, carbon steel, corrosion resistance, intergranular corrosion

ABSTRACT: Two series of heats of austenitic stainless steel containing 0.03—0.09% carbon, 1.5—2.2% manganese, 18.0—20.0% chromium, 5—7% nickel, 0.15—0.20% nitrogen, and 0—0.50% rare-earth metal (cerium, lanthanum, neodymium and praseodymium) have been tested to determine the maximum carbon content which does not render the steel susceptible to intergranular corrosion and to evaluate the effect of small additions of rare-earth metal on this maximum permissible carbon content. Corrosion tests of specimens annealed at 1100C and sensitized at 650C

Card 1/2

UDC: 669.018.8:669.85/.86:620.193

L 08292-67

ACC NR: AP6032051

3

for 1 hr showed that carbon in excess of 0.043—0.046% sharply increased the rate of corrosion, which proves the susceptibility of steel to intergranular corrosion. Tests also showed that rare-earth metals lower the resistance to corrosion of all tested steels in proportion to the increase of steel carbon content. Rare-earth metals appear to form carbides at grain boundaries which, due to their instability in acid solutions, promote intergranular corrosion. On the other hand, sensitized steel containing 0.045% carbon and no rare-earth metals is not susceptible to intergranular corrosion, and its resistance to corrosion in boiling nitric acid corresponds approximately to that of vacuum-melted Kh18N9 steel and greatly exceeds the resistance to corrosion of Kh18N9T steel. Orig. art. has: 4 figures.

SUB CODE: 13, 11/ SUBM DATE: 17Jan66/ ORIG REF: 005/ OTH REF: 001

Card 2/2 / 2

YASKEVICH, A., kapitan dal'nego plavaniya

Heroic passages. Mor. flot 25 pp. 5:10-12 My '65.

(MIRA 18:5)

RYABCHENKO, N.I.; SPITKOVSKIY, D.M.; TSEYTLIN, P.I.; Prinimala
uchastiye YASKEVTCH, A.G., studentka

Some physicochemical aspects of single-strand DNA. Biofizika
8 no.1:19-27 '63. (MIRA 17:8)

1. Institut eksperimental'ncy biologii AMN SSSR, Moskva i
Institut meditsinskoy radiologii AMN SSSR, Moskva.

IVANNIK, B.P.; KLIPSON, N.A.; MAMEDOVA, T.G.; RYABCHENKO, N.I.; SKLOBOVSKAYA,
M.V.; YASKEVICH, A.G.

Molecular mechanisms underlying radiation-induced cytogenetic
disorders. Vest. AMN SSSR 20 no.9:18-22 '65.

(MIRA 18:11)

1. Institut meditsinskoy radiologii AMN SSSR, Obninsk.

42058

27,1220

S/219/62/000/011/002/002
B144/B186

AUTHORS: Ryabchenko, N. I., Tseytlin, P. I., Yaskevich, A. G.

TITLE: Study of local radiation injuries in DNA by thermal separation of the double helix

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny, no. 11, 1962, 51 - 54

TEXT: The effect of irradiations on the DNA macromolecule was studied on the basis of the degradation kinetics and viscosity of its one-strand structures. A double-helix DNA ($N/P \approx 1.64 - 1.68$; $E(P) = 6500 - 6700$; molecular weight $= 7 \cdot 10^6 - 8.5 \cdot 10^6$) was obtained from calf thymus and x-ray irradiated with 5000 r/min. UV irradiation lasted for 5 min, dose $4.7 \cdot 10^4$ erg/min. mm^2 . One-strand DNA was obtained at $88^\circ C$ by the method of P. Doty et al. (Proc. nat. Acad. Sci. (Wash.), 1960, v. 46, p.461). The number of strands was calculated from $\log \eta / \log R$ divided by $-\alpha$, where η is the viscosity, R the x-ray dose in r, and α the exponent in the Staudinger equation. Since the number of chains, n , was ~ 1 in irradiated and Card 1/3

Study of local

S/219/62/000/011/002/002
B144/B186

non-irradiated structures, it is assumed that x-ray irradiation does not cause thermostable crosslinking. UV irradiation inhibited the separation of the strands, owing to crosslinking. These results agree closely with the viscosity data obtained with different electrolytes and temperatures. When the Na^+ ion concentration is increased from 0.01 to 0.2 M, the one-strand DNA from irradiated as well as non-irradiated DNA coils up, and the viscosity decreases by 20 - 30 times. When the temperature in 0.2 M Na^+ is raised from 25 to 70°C, the viscosity increases by a factor of 3.0-3.7. The viscosity of the irradiated one-strand DNA is, however, 3-4 times lower than that of the non-irradiated; this is apparently due to solitary breaks in the chains. The effects of increased temperature and ion concentration in UV irradiated one-strand DNA were much less marked. There are 1 figure and 1 table.

ASSOCIATION: Institut eksperimental'noy biologii AMN, SSSR (Institute of Experimental Biology AMS USSR (I. N. Mayskiy, Professor, Director); Institute meditsinskoy radiologii AMN SSSR (Institute of Medical Radiology AMS USSR, Moscow (G. A. Zedgenidze, Member of the AMS USSR, Director)

Card 2/3

Study of local ...

S/219/62/000/011/002/002
B144/B186

PRESENTED: by N. N. Zhukov-Verezhnikov, Member of the AMS USSR

SUBMITTED: February 20, 1962

Card 3/3

YASKEVICH, A.I.

Collection of clinical prescriptions." B.I.Trusevich, V.V.Korobko.
Reviewed by A.I.Iaskevich. Farm. 1 toks. 18 no.4:56-57 J1-Ag '55.
(MEDICINE--FORMULAE, RECEIPTS, PRESCRIPTIONS) (MLRA 8:11)
(TRUSKEVICH, B.I.) (KOROBKO, V.V.)

YASKEVICH, A.M., inzh.

Efficiency of using trolley dump trucks in Bogurayev Quarries.
Mekh.i avtom.proizv. 1/4 no.5:44-45 My '60. (MIRA 14:2)
(Bogurayev--Dump trucks)

YASKEVICH, A. P.

POLIN, Leonid Yevgen'yevich; YASKEVICH, A. P., redaktor; DIZHUR, I.M.,
redaktor izdatel'stva; FIKHONOVA, Ye.A., tekhnicheskiy redaktor

[Manoeuvring in narrow places] Manevrirovanie v uzkoostakh.
Moskva, Izd-vo "Morskoi transport," 1957. 179 p. (MLA 10:10)
(Naval maneuvers)

YASKEVICH, Aleksey Pavlovich; BOBYR'-BYKHANOVSKIY, I.L., red.;
FEDOROV, V.P., red.izd-va; LAVRENKOVA, N.B., tekhn.red.

[Collisions of ships] Stolknovenie sudov. Moskva, Izd-vo
"Morskoi transport," 1958. 137 p. (MIRA 12:1)
(Collisions at sea)

YASKEVICH, A.T.; SHULIP, V.P.; SHCHEKOLDIN, G.N.; ZAPACHEL'NYUK, F.I.

More efficient production of nepheline concentrate. Prom.energ.11
no.5:25 My '56. (Nepheline) (MLRA 9:9)

YASKEVICH, A.T.

Conference on the use of foam apparatus for the removal of dust from
gases. Khim.prom. no.4:251-252 Ja '57. (MLRA 10:9)
(Dust collectors)

~~YASBYCH, E. D.~~

New species of ostracods from Santonian coastal sediments
in the eastern slope of the Urals. Trudy Gor.-geol. inst.
UFAN SSSR no.61:69-87 '61. (MIRA 15:10)

(Ural Mountain region—Ostracoda, Fossil)

9(6)

SOV/32-25-4-58/71

AUTHORS: Chikobava, V. S., Yaskevich, G. N.

TITLE: Use of Silver - Carbon Foils for Electron Microscope Investigations (Primeneniye serebryano-ugol'nykh plenok dlya elektronmikroskopicheskikh issledovaniy)

PERIODICAL: • Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, p 498 (USSR)

ABSTRACT: Silver - carbon foils may be used for studying electron-microscopically the fine structure of nickel alloys. Silver is dusted onto the pickled ground section in a vacuum (10^{-4} mm Hg). The thickness of the silver layer is a few microns, and it can be easily detached. Carbon is then dusted onto this negative silver "print" of the ground section. This is, again, done in the vacuum. This dual-layer silver-carbon foil is then placed into nitric acid, where the silver dissolves and the carbon foil floats up. The latter is then cleaned and studied electron-microscopically. The electron microphotograph of a ZhSZ alloy is given (fig). There is 1 figure.

Card 1/1

ACCESSION NR: AP4015077

S/0205/64/004/001/0003/0009

AUTHOR: Tseytlin, P. I.; Yaskovich, G. P.; Ryabchenko, N. I.

TITLE: Effect of ionizing radiation on the hydrogen bond system of DNA macromolecules

SOURCE: Radiobiologiya, v. 4, no. 1, 1964, 3-9

TOPIC TAGS: ionizing x-irradiation effect, DNA macromolecular structure, DNA hydrogen bonds, DNA thermostability, radiation dose, DNA melting temperature, double strand DNA

ABSTRACT: This study of DNA macromolecular structure thermostability is based on the literature and on investigation of DNA solutions. DNA solutions (0.008%) were vibrated at 10 kc and x-irradiated in 0.2M NaCl with doses ranging from 12 to 59 kr. Hydrogen bond system damage in DNA solutions was determined spectrophotometrically by absorption value changes. Melting temperature curves served as thermostability indices. Findings show that radiation doses may markedly reduce DNA melting temperatures without affecting DNA absorption values at room temperature. With increased radiation doses,

Card 1/2

ACCESSION NR: AP4015077

the DNA melting temperature profile deteriorates. Melting temperature decrease is a linear function of the radiation dose. Irradiation breaks down DNA hydrogen bonds into several double strand DNA parts independent of one another. These DNA parts melt at lower temperatures because of reduced molecular weight (100,000 or less). Orig. art. has: 5 figures, 1 table.

ASSOCIATION: Institut eksperimental'noy biologii AMN SSSR, Moscow(Institute of Experimental Biology, AMN SSSR); Institut meditsinskoy radiologii AMN SSSR, Obninsk(Institute of Medical Radiology, AMN SSSR)

SUBMITTED: 17Jul63

DATE ACQ: 12Mar64

ENCL: 00

SUB CODE: LS

NO REF SOV: 006

OTHER: 015

Card 2/2

5c
L 24409-66 EWT(1)/EMA(h)/ETC(m)-6 WM
ACC NR: AP6006369

SOURCE CODE: UR/0413/66/000/002/0100/0100

AUTHORS: Chernoval, V. S.; Shcherba, N. U.; Frelin, N. V.; Dashevskiy, L. N.;
Kolyada, I. A.; Gudrit, Ye. R.; Pediv, V. A.; Ivanovskiy, E. N.; Mazur, P. A.;
Yaskevich, L. Ye. 55
13

ORG: none

TITLE: Streamline flow meter. ²⁵ Class 42, No. 178125 [announced by Gas Institute,
AN UkrSSR (Institut gasa AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obrastey, tovarnyye znaki, no. 2, 1966, 100

TOPIC TAGS: flow meter, streamline flow

ABSTRACT: This Author Certificate presents a streamline flow meter containing a sensing element in the form of a pivoted vane and jet rectifiers mounted in front of and behind the vane (see Fig. 1). To decrease vibrations, the pivoted vane has a bend in the side opposite the flow direction. A plate whose center of gravity is displaced toward the free end of the vane is hinged to the vane. There is also a bypass tube connecting the front and back of the vane. 2

UDC: 532.574.27

Card 1/2

L 24409-66
ACC NR: AP6006369

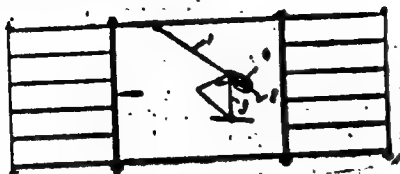


Fig. 1. 1 - pivoted vane;
2 - bend of vane; 3 - plate;
4 - bypass tube.

Orig. art. has: 1 diagram.

SUB CODE: 14/

SUBM DATE: 12Feb65

Card 2/2 *de*

YASKEVICH, R.T.

Characteristics of the anatomical structure of wood of some almond
species. Bot.zhur.41 no.8:1172-1177 Ag '56. (MLRA 9:12)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Almond) (Wood)

YASKEVICH, R.T.

Shoot formation in *Dicranis arundinacea* L. and *Beckmannia eruciformis*
(L) Host. Bot.zhur. 43 no.3:395-399 Mr '58. (MIRA 11:5)

1. Institut biologii AN BSSR, Minsk.
(Reed canary grass) (Slough grass)

L 45874-66

ACC NR: AP6017081

(A)

SOURCE CODE: UR/0317/66/000/001/0066/0067

AUTHOR: Yas'kevich, Z. (Master of arts; Engineer; Member of Polish Army)

ORG: None

TITLE: Asphalt-paved runways

SOURCE: Tekhnika i vooruzheniye, no. 1, 1966, 66-67

TOPIC TAGS: airfield, runway construction, asphalt / ~~D-20, D-35~~, D-50, D-70, ~~D-100~~,
D-200, ~~D-300 asphalt~~ *asphalt asphalt*

ABSTRACT: The use of bituminous materials such as asphalts and tars for landing-strip pavements on Polish airfields is discussed. This material is successfully used for repairing old cement or concrete runways and for new constructions. It is estimated that the life of asphalt pavements is about 30 years while the life of concrete pavements is from 35 to 50 years. However, asphalt is less expensive than concrete. The landing strips are usually paved either with coarse-grained or medium-grained asphalt-concrete mixtures. The mixtures consist of D-50 or D-70 asphalt, mineral flour, crushed stone and sand (grains less than 2 mm). The percentage compositions of coarse and medium-grained mixtures are shown in a table. Asphalts of Polish domestic origin are used. Their types and penetrations, at 25 C, are shown in a table. In order to increase the surface non-skid properties, an addition (not more than 30%) of blast-furnace slag to crushed basalt is recommended. The addition of a mixture composed of lime (70%) and chimney (30%) ashes

Card 1/2

L 45874-66

ACC NR: AP6017081

is also recommended. The upper layer of an asphalt pavement is impregnated with a mixture of cement (50%) and water (50%) up to a 3-mm depth. The procedure of impregnation is briefly explained. Such asphalt-cement surfaces resist well to the action of fuel gases and are waterproof. Their coefficient of friction is about 0.84. Orig. art. has: 2 tables.

SUB CODE: 01, 11/ SUBM DATE: None

Card

2/2 ULR

YASKEVICHILIS, A.

YASKEVICIUS, A., med. m. kand.

Acute pancreatitis from data of the 1st general clinical hospital. Sveik. apsaug. 8 no.1:12-16 Ja'63.

1. Vilniaus 1 tarybine klinine ligonine. Vyr. gydytojas V. Bernackis.

*

YASHIN, A.Ya.

Lower waves in a rectangular wave guide with a laminated filling.
Izv.vys.ucheb.zav.; radiotekh. no.4:503-505 J1-Ag '58.
(MIRA 11:11)

1. Rekomendovana kafedroy fiziki Moskovskogo stanko-instrumental'-
nogo instituta im. I.V. Stalina.
(Wave guides)

FAL'KOVSKIY, S.V., inzh.; ZAKHAROV, Ye.S., inzh.; VIGAK, V.M., inzh.;
YASKILKO, N.B., inzh.; BULYGIN, Yu.G., inzh.; PASICHNIK, I.I., inzh.

Using strain gauges for a full scale investigation of the steam
pipes of the 200 Mw unit. Teploenergetika 9 no.1:32-36 Ja '62.
(MIRA 14:12)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i
ratsionalizatsii elektrostantsiy.

(Steam pipes—Testing)
(Boilers)

YASKIN, S. I.

"Sainfoin in Khakassiya Sandy Soil and Its Agricultural Value."
Cand Agr Sci, Omsk Agricultural Inst, Omsk, 1953. (RZhBiol, No 3, Oct
54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

YASKIN, V.

First results of our construction organization's work. Sel'. stroi.
11 [i.e. 12] no.2:5-6 F '57. (MIRA 10:4)

1. Predsedatel' Peremyshl'skoy meshkolkhoznoy stroitel'noy organizatsii
Kalushskoy oblasti.
(Peremyshl' District--Construction industry)

YASKIN, V. N.

"Causes of the Noncoalescence of Water Droplets in Collision," by P. S. Prokhorov and V. N. Yaskin, Lab. of Surface Forces, Inst. of Physical Chemistry, Acad. Sci. USSR, April, 1947

B-76026

YASKINA, D. Z.		PRECEDENCE AND PRIORITY INDEX	
CA			17
<p>Determination of thebaine in opium and in the waste products of opium manufacture. S. I. Kanevskaya, D. Z. Yaskina, and S. F. Mitryagina (Moscow Pharm. Inst., Ministry of Health). <i>J. Applied Chem. (U.S.S.R.)</i> 18, 374-5 (1945) (in Russian); cf. C.A. 42, 1800c. — The detn. of thebaine through condensation with benzoquinone by cautious heating at 40-50° for 10 min. in 95% alc. soln. of the adduct in CHCl₃, and iodometric titration of the benzoquinone, is accurate within 0.5% provided resins, dyeing substances, and phenolic alkaloids (morphine) are removed beforehand. Presence of codeine, papaverine, and narcotine is unimportant. The opium sample is extd. with water (100 ml. per 5-6 g. opium, with shaking for 2-3 hrs.); 40 ml. of the ext. are pptd. with NaOAc; in an aliquot of the filtrate, the alkaloids are pptd. 4-5 times with excess 10% NaOH, are taken up with ether, and the ether is evapd. Thebaine-contg. resins are dissolved in 5-8% AcOH.</p>			
<p>ABB-56.1 METALLURGICAL LITERATURE CLASSIFICATION</p>			

YASKINA, D.S.

YASKINA, D.S., kandidat farmatsevticheskikh nauk

Quantitative determination of some salts of alkaloids and anesthetics
in ampulla solutions by means of "H-O" ion-exchange substances. *Ant.*
60.6 no.4:46-48 J1-Ag '57. (MLRA 10:9)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L.Senov)
Moskovskogo farmatsevticheskogo instituta Ministerstva zdave-
okhraneniya RSFSR.
(ALKALOIDS) (ANESTHETICS) (BASE-EXCHANGE COMPOUNDS)

YASKINA, D. S.

453

AUTHORS:

Kanevskaya, S. I. and Yaskina, D. S.

TITLE:

The Mechanism of the Hofmann Reaction (K voprosu o mekhanizme reaktsii Gofmana)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 65-68 (U.S.S.R.)

ABSTRACT:

In order to explain further the mechanism of the Hofmann reaction, the authors studied it with amides beta-phenyl-beta-(N-phenyl-N-benzoylamino)-propionic acid because the absence of the hydrogen atom in the nitrogen of the amino-group of this amide promotes the possibility of formation of a homologous glyoxalidone, provided the latter is formed from potassium salt of carbamic acid. The glyoxalidones are being formed not as a result of intramolecular cyclization of the intermediately originating salts of carbamic acids but rather as a result of intramolecular isomerization of the intermediate isocyanates. Again, due to the absence of the hydrogen atom in the nitrogen of the amino group, the isocyanate does not experience an intramolecular closing into glyoxalidone but hydrolyzes under the effect of an alkali surplus into a homologous diamine. Benzoylation of beta-phenyl-beta-(N-phenylamino)-propionic acid was possible only in the presence of benzoyl

Card 1/2

453

The Mechanism of the Hofmann Reaction

chloride in the quinoline base medium. Employing this method, the authors obtained beta-phenyl-beta-(N-phenyl-N-benzoylamino)-propionic acid which was converted with acid chloride into amide. The reaction of amide of beta-phenyl-beta-(N-phenyl-N-benzoylamino)-propionic acid with potassium hypobromite did not produce any glyoxalidone; a detailed investigation of the reaction products revealed a substance, the analysis and property data of which corresponded with beta-phenyl-beta-(N-phenyl-N-benzoyl)-ethylene-diamine. There are 10 references, of which 4 are Slavic.

ASSOCIATION: The Moscow Pharmaceutical Institute (Moskovskiy Farmatsevticheskiy Institut)

PRESENTED BY:

SUBMITTED: January 30, 1956

AVAILABLE:

Card 2/2

YASKINA, D.S.

454

AUTHORS:

Kanevskaya, S. I. and Yaskina, D. S.

TITLE:

Synthesis of Substituted Ethylenediamines by the Hofmann Reaction
(Sintez zameshchennykh etilendiaminov po reaktsii Gofmana)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 68-72 (U.S.S.R.)

ABSTRACT:

The method of obtaining arylenediamines based on the splitting of glyoxalidones with hydrochloric acid (method introduced in 1932 by S. I. Kanevskaya) and the Hofmann reaction were used in synthesizing phenylethylenediamine derivatives containing methoxy- and methylenedioxy groups in the phenyl radical. The chemical process of synthesizing 4-methoxy- and 3,4-methylenedioxyphenyl-ethylenediamines is described. The basic beta-(3,4-methylene dioxypheyl)- and beta-(4-methoxyphenyl)-beta-aminopropionic acids were derived by the widely-known V. M. Rodionov method (5-13), then subjected to benzylation with benzoyl chloride in an alkali medium and finally converted by ester of acid chloride into homologous amides. By applying the Hofmann reaction to amides of beta-3,4-methylene dioxypheyl)-beta-(N-benzoylamino)-propionic and beta-(4-methoxyphenyl)-beta-(N-benzoylamino)-propionic acid, the authors obtained 5-(3,4-methylene dioxypheyl)-glyoxalidone together with 5-(4-methoxyphenyl)-1,3,4-oxadiazolone-(2), 5-(3,4-methylen dioxypheyl)-

454

Synthesis of Substituted Ethylenediamines by the
Hofmann Reaction

1,3,4-oxydiazolone-(2) and 5-(4-methoxyphenyl)-glyoxalidone. Carbonization took place after heating the latter with concentrated hydrochloric acid. Only after finding softer hydrolysis conditions for these glyoxalidones was it possible to obtain dichlorohydrates of 3,4-methylene dioxypheyl-ethylenedimaine and 4-methoxyphenyl-ethylenediamine. Pharmacological tests conducted by M. M. Nikolayeva and P. M. Subbotin at the Moscow Pharmaceutical Institute showed that this substance, when introduced intravenously, causes a rise in blood pressure (cats and rabbits) but is about .2% as potent as andrenalin. There are 15 references, of which 5 are Slavic.

ASSOCIATION: The Moscow Pharmaceutical Institute (Moskovskiy Farmatsevticheskiy Institut)

PRESENTED BY:

SUBMITTED: January 30, 1956

AVAILABLE:

Carc 2/2

YASKINA, D.S., kand.farmatsevticheskikh nauk

Quantitative determination of ampule solutions of the hydro-
chlorides of lobeline and ephedrine by using the "H-O" anionite.
Apt.delo 8 no.3:66-68 My-Je '59. (MIRA 12:8)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof.P.L.Senov)
farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova Ministerstva zdavo-
okhraneniya RSFSR.

(LOBELINE)

(EPHEDRINE)

(ION EXCHANGE)

YASKINA, D.^S., kand.farmatsevticheskikh nauk

"Technology of pharmaceutical chemical preparations" by L.S. Maioris.
Reviewed by D.Z. IAskina. Apt. delo 9 no. 5:88-89 S-0 '60.

(MIRA 13:10)

(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

(MAIORIS, L.S.)

BELOVA, A.V.; GORBACHEVA, N.A.; SHVAYKOVA, Mariya Dmitriyevna, prof.;
SHEVERDYAYEVA, V.M.; RUETSOV, A.F.; kand.farmatsevticheskikh
nauk, retsenzent; YASKINA, D.S.; kand.farmatsevticheskikh nauk,
retsenzent; KOZULIN, V.S.; red.; RAYKO, N.Yu.; tekhn.red.

[Manual on the practical studies of forensic chemistry for
pharmacology correspondence students of institutions of higher
learning] Rukovodstvo k prakticheskim zaniatiyam po sudebnoi
khimii; dlia studentov-zaochnikov farmatsevticheskikh vuzov.
Pod obshchei red. M.D.Shvaikovo. Moskva, 1-1 Mosk.mod.in-t im.
I.M.Sechenova, 1961. 101 p.

(MTRA 14:6)

1. Kafedra sudebnoy khimii farmatsevticheskogo fakul'teta 1-go
Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova (for Belova, Gorbacheva, Shvaykova, Sheverdyayeva).
(PHARMACOLOGY—LABORATORY MANUALS)
(CHEMISTRY, LEGAL)

YASKINA, D.S.; NGUYEN BA KHIEP

Quantitative determination of aporphene and benzacetone with the
aid of H-O anionite. Apt. delo 13 no.1:69-70 Ja-7 '64.
(MIRA 17:4)

1. Parnatsevtichoskiy fakul'tet I Moskovskogo ordena Lenina
meditsinskogo instituta imeni Sechenova.

YASKINA, K.V.

SOROKINA, Ye.G.

3(5)

PHASE I BOOK EXPLOITATION SOV/1798

Dzhalutskov, Fedor Semenovich, Tamara Ivanovna Gurova, Lidiya Iliarionovna Korobeynikova, Viktoriya Aleksandrovna Pluman, Antonida Grigor'yevna Poda, Yevgeniya Gerbetovna Sorokina, and Klavdiya Vasil'yevna Yaskina

Litologiya mezozoya i kaynozoya Zapadno-Sibirskoy nizmennosti (Mesozoic and Cenozoic Lithology of the West Siberian Plains) Moscow, Gostoptekhizdat, 1957. 187 p. 1,000 copies printed.

Sponsoring Agencies: USSR. Ministerstvo neftyanoy promyshlennosti, and Zapadno-Sibirskiy gosudarstvennyy nefterasvedochnyy trest.

Ed.: V.G. Vasil'yev; Exec. Ed.: Ye.G. Sorokina; Tech. Ed.: E.A. Mukhina

PURPOSE: This book is intended for lithologists, petrographers, stratigraphers, and exploration geologists in general.

COVERAGE: The book describes the methods and results of lithological and petrographic studies of Mesozoic and Cenozoic sediments conducted in the area of the West Siberian Plains during the period 1950-1954. An analysis is made for each stratigraphic component of the mineral - Card 1/7

petrographic composition of the rocks and the mineral-petrographic correlations. A comparison between the studied cross-sections is also made. The facies characteristics of sedimentation for individual periods in the geological history of the regions and the variations in these characteristics in space and time are discussed. Conditions favorable for the formation and migration of gases and petroleum during Mesozoic time and the possible accumulation of petroleum and gas on an industrial scale in Western Siberia are examined. There are 34 figures, 11 tables, a supplement containing 5 maps. There are 33 Soviet references.

TABLE OF CONTENTS:

Introduction	3
Ch. I. Methods of Study	5
Ch. II. Lithologic and Petrographic Characteristics and the Mineralogical Composition of Mesozoic and Cenozoic Sediments of the Central and Southern Parts of the West Siberian Plains	7
Card 2/7	

YASKINA, R.K.

Regionalization of the northern and northwestern parts of
European U.S.S.R. Vest.LGU 16 no.18:131-134 '61. (MIRA 14:10)
(Russia; Northwestern geography)

YASHINA, YE. K.

Comparative study of properties of thrombotropin and Ac-globulin B. A. Kutryashov and B. B. Yashin (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 95, 123-6 (1954).—Introduction of dicoumerin into exptl rats destroys biosynthesis of thrombotropin, while the biosynthesis of Ac-globulin is unchanged. Heating blood plasma of a rat leads to approx. equal degrees of denaturation of both thrombotropin and Ac-globulin. The 2 substances appear to behave differently in the plasma only at pH 6.6, since at other pH levels their activities are changed by substantially the same amts. Thrombotropin, in contrast to Ac-globulin, is adsorbed on $\text{Ca}_3(\text{PO}_4)_2$. Thus the 2 substances are undoubtedly distinct plasma components. G. M. K.

15695

YASKLOVSKIY, V.

USSR/Vocational Education 5705.0200 Oct 1947

"Moscow Leather Shoe Combine is Twenty-five Years Old," V. Yasklovskiy, 1 p

"Legkaya Prom" Vol VII, No 10

Discusses achievements and curricula of Moscow Leather Shoe Combine Technical School. Student body of 600 persons in 1946-1947 academic year. Total auditorium, laboratory and office space is 3,500 meters. Library contains 54,000 volumes, and there are not enough instructors. In past 25 years the combine has prepared 1,278 workers as commanders of central workshops, 653 footwear technologists, 49 technologists for production of extracts, and 381 leatherworker-technicians.

15695

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PERSHIN, N.I.; ALEKSANDROV, V.I.; ILLERITSKIY, N.Ye.; TABACHKOV, I.F.;
BOL'SHAKOV, V.I.; KANAR', I.A.; YAS'KO, A.M.; KLYUKIN, A.P.;
POLYAKOV, V.S.; FILIPPOVA, N.A.; SMAGORINSKIY, B.S., red.;
IZHBOLDINA, S.I., tekhn. red.

[The millionth tractor; on the occasion of the 30th anniversary of the Stalingrad Tractor Plant (1930-1960)] Millionnyi traktor; k 30-letiu Stalingradskogo traktornogo zavoda (1930-1960). Stalingrad, Stalingradskoe knizhnoe izd-vo 1960. 94 p.
(MIRA 16:9)

1. Stalingradskiy traktornyy zavod im. Dzerzhinskogo.
(Volgograd--Tractor industry)

YAS'KO, G.S. [IAs'ko, H.S.]

Increasing the economic efficiency of capital investment
in the "Il'ich" Leather Factory in Berdichev. Leh. prom. 10.4:
41-42 O-D '64 (MIRA 18:1)

YASKO, L.V.

S/135/62/000/005/001/010
AG51/A126

AUTHORS: Nazarov, I.N. (deceased); Nagibina, T.D.; Yazenkova, L.S.; ~~Alik-~~
~~berova, G.I.~~; ~~Yas'ko, L.V.~~

TITLE: Copolymers based on butadiene, isoprene and dimethylvinylethynyl
carbinol

PERIODICAL: Kauchuk i rezina, no. 5, 1962, 1 - 4

TEXT: The article deals with the reaction of copolymerization in an emul-
sion of butadiene and isoprene with dimethylvinylethynyl carbinol (IMVEC), in
the presence of various initiators. A comparative evaluation of the vulcanization
of these rubber bases is made. Monomers used in the reaction were: rectified
butadiene, IMVEC (boiling point 58 - 59°C/13 mm, n_D^{25} 1.4786, d_4^{25} 0.8925), iso-
prene (boiling point 34°C, n_D^{25} 1.4203). The various initiators used were: potas-
sium persulfate, diazoaminobenzene and glucose, diazoaminobenzene with hydroquinone.
The physico-chemical properties are studied of the butadiene and IMVEC copoly-
mers [DK-30 (DK-30) and DK-10 (DK-10)], and of the isoprene and IMVEC copoly-
mers [IK-30 (IK-30) and IK-10 (IK-10)]. It was found in experiments that car-

Card 1/2

Copolymers based on butadiene, isoprene and

S/138/62/000/005/001/010
A051/A126

bon black vulcanizates of the butadiene and IMVEC copolymers have a high tensile strength, a sufficiently high thermal resistance, satisfactory wear and crack growth resistance in repeated bends. They are superior to vulcanizates of industrial butadiene-styrene and butadiene-nitrile rubbers [CKO-30 (SKS-30) and CKH-26 (SKN-26)]. The DK-30 copolymers, produced in the presence of diazoaminobenzene and glucose, have the highest mechanical strength. The thermomechanical indices of the former are higher than those of the SKN-26 copolymers. The physico-mechanical properties of the IK-30 copolymer vulcanizates (excluding crack growth) are on one level with rubbers based on industrial SKS-30 rubber, and are superior to the latter in their crack growth resistance. The IK-10 copolymer vulcanizates are inferior to rubbers based on the industrial SKS-30 rubber as to physico-mechanical properties, excepting frost resistance.

ASSOCIATION: Institut organicheskoy khimii AN SSSR (Institute of Organic Chemistry at the AS USSR)

Card 2/2

NAGIBINA, T.D.; YASENKOVA, L.S.; ALIKBEROVA, G.I.; YAS'KO, L.V.

Copolymerization of butadiene and isoprene with dimethylvinylethynyl-
carbinol at 5°C. Kauch.i rez. 21 no.7:6-8 J1 '62. (MIRA 15:7)

1. Institut organicheskoy khimii AN SSSR.
(Butadiene) (Isoprene) (Alcohols)

NAGIBINA, T.D.; YASENKOVA, L.S.; YAS'KO, L.V.; ALIKBEROVA, G.I.

Isoprene and acrylonitrile copolymers. Kauch. 1 rez. 22
no.12:4 D '63. (MIRA 17:9)

1. Institut organicheskoy khimii AN SSSR.

ORLOV, V.P., kand.sel'skokhoz.nauk. Prinimali uchastiye: AVROV, N.N.;
BASENKO, P.V.; VARLAMOV, D.A.; VASIL'YEV, I.I.; VLASOV, V.N.;
VYLEGZHANINA, V.A.; ZHIVET'YEV, V.G.; ZAVADSKIY, I.S.; ZALESSKIY,
Ye.Ye.; ZAKORYUKIN, D.S.; ISHCHENKO, I.N.; KACHIBAYA, I.D.; KISE-
LEV, Ye.S.; KOZHEVNIKOV, I.Z.; LISITSYN, V.I.; MESHCHERYAKOV, V.F.;
NYURIN-VERTSBERG, R.L.; PEREPELITSA, V.M.; RYABKOV, A.D.; SKURIKHIN,
I.P.; SOLOV'YEV, N.A.; YAS'KO, N.G.. GREBTSOV, P.P., red.; ZUBRILINA,
Z.P., tekhn.red.

[Our farms in 1965] Nashi khoziaistva v 1965 godu. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1959. 230 p. (MIRA 13:2)
(Agriculture)

STRELKOV, G.I.; YAS'KO, O.I.

Measuring the velocity of a luminous jet. Inzh.-fiz.zhur. no.5:93-
95 My '60.

(Jets--Fluid dynamics)

(MIRA 13:8)

SHASHKOV, A.G.; YAS'KO, O.I.; SERGEYEV, V.L.; YUREVICH, F.B.

Electric arc heaters for obtaining high-temperature streams.

Inzh.-fiz.zhur. 5 no.1:115-129 Ja '62.

(MIRA 25:3)

(Electric arc)

(Electric heating)

SERGEYEV, V. I.; TROFIMOV, V. P.; YEREVICH, F. B.; YAS'KO, O. I.

Some results of studying the operation of an electric arc
heater with gas stabilization of the discharge. Inzh.-fiz.
zhur. 6 no.1:14-18 Ja '63. (MIRA 16:1)

(Electric arc)

GARKAVYY, Ye.V.; YAS'KO, O.I.

Some temperature characteristics of an arc jet. Inzh.-fiz.
zhur. 6 no.11:50-51 N '63. (MIRA 16:11)

1. Institut teplo- i massobmena AN BSSR, Minsk.

YASKO, O. I.

"Generalization of volt-ampere characteristics of some types of electric arcs."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Inst of Heat & Mass Transfer, AS BSSR.

ACCESSION NR: AP4038659

S/0170/64/000/004/0025/0027

AUTHOR: Kutateladze, S. S.; Yas'ko, O. I.

TITLE: Generalization of the characteristics of electric arc heaters

SOURCE: Inzhenerno-fizicheskii zhurnal, no. 4, 1964, 25-27

TOPIC TAGS: Electric arc heater, arc heater, electric arc, turbulent gas flow, gas vortex

ABSTRACT: Low-temperature heaters with turbulent gas stabilization air and nitrogen were used as an example to show the possibility of generalizing the volt-ampere characteristics of electric arc heaters. In this treatment of the problem, the independent parameters are the geometry of the anode and cathode, the geometry of the gas vortex, the intensity of the current passing through the electric arc, the gas flow rate, and the kind of gas. A criterial equation is derived which correlates the volt-ampere characteristics of such heaters. It was found that despite appreciable changes in the parameters, all the data can be represented by a single curve in generalized coordinates. This shows that even the description of such complex phenomenon as an electric arc can in certain

Card 1/2

ACCESSION NR: AP4038659

cases be carried out with a small number of criteria. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Institut teplo-i massoobmena, AN BSSR, Minsk (Institute of Heat and Mass Transfer, AN BSSR)

SUBMITTED: 26 Jul 63

DATE ACQ: 19 May 64

ENCL: 00

SUB CODE: EE

NO REF SOV: 006

OTHER: 003

Card 2/2

KUTATELADZE, S.S.; YAS'KO, O.I.

Generalization of the characteristics of arc heaters.
Inzh.-fiz. zhur. 7 no.4:25-27 Ap '64.

(MIRA 17:4)

1. Institut teplo- i massobmena AN BSSR, Minsk.

YAS'KO, O.I.

Generalization of the characteristics of electric arcs. Inzh.-
fiz. zhur. 7 no.12:112-116 D '64 (MIRA 18:2)

1. Institut teplo-i massobmena AN BSSR, Minsk.

STRELKOV, O.I.; YAS'KO, O.I.

Using the method of photographic image scanning for determining
the velocity of a high-temperature gas stream. Usp.nauch.fot.
9:219 '64. (MIRA 18:11)

L 64316-65 EPT(c)/EPT(n)-2/ZH(1)/ENG(m) WH

ACCESSION NR: AP5020214

UR/0170/65/009/001/0061/0063
536,241

AUTHOR: Yas'ko, O. I. 114,55

TITLE: The mechanism of heat transfer in an arc with transverse blowing

SOURCE: Inzhenerno-fizicheskij zhurnal, v. 9, no. 1, 1965, 61-63

TOPIC TAGS: heat transfer, electric arc, turbulent flow

ABSTRACT: The article attempts to prove that an electric arc with transverse blowing is characterized by turbulent heat transfer. The theoretical development is based on three equations: Ohms Law, the law of the conservation of energy, and the principle of the maximum. It is demonstrated that, at the temperatures which can be set up in the channel of an arc with blowing, the required blowing rates turn out to be considerably higher than the blowing rates of the arc. Transfer of energy within the limits of the column of the arc is effected by turbulence or by some other method. From these processes we must exclude transfer of energy by molecular thermal conductivity and other processes which depend on

Card 1/2

L 64316-65

ACCESSION NR: AP5020214

the molecular constants and on the temperature gradient, since the molecular transfer coefficients do not enter into the system of determining magnitudes. Orig. art. has: 10 formulas and 1 figure

ASSOCIATION: Institut teplo-i massoobmena AN BSSR, g. Minsk (Heat and Mass Transfer Institute of the Belorussian Academy of Sciences)

SUBMITTED: 10Dec64

ENCL: 00

44.55
SUB CODE: TD

NR REF SOV: 004

OTHER: 002

KC
Card 2/2

L 21326-65 EWT(1)/EPA(w)-2/EEC(t)/EWA(m)-2 Pub-10 SSD/AFWL/BSD/AEDC(a)/
 ASD(f)-3/AS(mp)-2/AFETR
 ACCESSION NR: AP5002034 S/0170/64/000/012/0112/0116

AUTHOR: Yas'ko, O. I.

TITLE: General characteristics of electric arcs

SOURCE: Inzhenerno-fizicheskii zhurnal, no. 12, 1964, 112-116

TOPIC TAGS: electric arc, heat transfer, energy transfer, electric conduction, thermal conduction, turbulent heat transfer

ABSTRACT: From energy relations, a set of criteria is obtained for electric arcs, and the results are applied to the volt-ampere characteristics of the system. According to S. S. Kutateladze and O. I. Yas'ko (IFZh, No. 4, 1964), by neglecting all forms of heat transfer except energy transfer to the gas, a dimensional group may be obtained in the form $Ud/I = f(I^2/Gd)$, provided that δ_0 and h_0 are constant.

For blowing or moving electric arcs (with heat transfer by turbulent conduction), the above expression can be modified to yield a dimensional group of the form $E/d_0 \rho_0 h_0 W = f(I^2/\rho_0 h_0 \epsilon_0 d_0^3 W)$. This can then be reduced to the volt-ampere characteristic $E/I = 3550 (I^2/W)^{-0.76}$, where the coefficients have been determined experimentally. An equivalent dimensional group for stabilized arcs is given by $Ed^2/I = f(I/d)$. For

Card 1/2

L 21326-65

ACCESSION NR: AP5002034

$I/d < 10^4$, by making use of experimental data, this functional relationship can be expressed by the equation $Ed^2/I = 400(I/d)^{-1.3}$, provided that the physical parameters δ , λ , and T remain constant. Thus, it is shown that the complex phenomenon associated with electric arcs can be represented by generalized characteristics. Orig. art. has: 14 formulas and 3 figures.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR g. Minsk (Institute of Heat and Mass Transfer, AN BSSR)

SUBMITTED: 09Apr64

ENCL: 00

SUB CODE: EE

NR REF SOV: 004

OTHER: 001

2/2

KOROTEYEV, A.S.; YAS'KO, O.I.

Generalization of the characteristics, in dimensionless criteria,
of blown electric arcs. Inzh.-fiz. zhur. 10 no.1:26-31 Ja '66.
(MIRA 19:2)

1. Institut teplo- i massoobmena AN BSSR, Minsk. Submitted
July 30, 1965.

YAS'KO, P.

What are the advantages of short-time following of fall tillage?
(MIPA 17:11)
Zemledelie 26 no.9:28-29 S '64.

1. Glavnyy agronom Shovgenovskogo proizvodstvennogo upravleniya
Adygeyskoy avtonomnoy oblasti.

V

when it is activated. After thorough mixing and
was added in the mixture. After 24 hours the phosphors were
drying in air at 25°C. The excitation of
phosphors will be observed only if the
X-ray source is present.

The last exhibited result is the following:
The last exhibited result is the following:

1. The first exhibited result is the following:
2. The second exhibited result is the following:
3. The third exhibited result is the following:

YAS'KO, S.; YEVGEN'YEV, V. [IEvhen'iev, V.]

Railroad kaleidoscope. Znan.ta pratsia no.8:7 Ag '62. (MIRA 15:12)

(Railroads)

BRYKIN, L., mashinist pod'yema; DEMIN, B., krepil'shchik; PERSHIN, V.,
slesar'; YAS'KO, Ya., gornyy master; VIGDERGAUZ, I.; KRYLOVSKAYA, I.

New living quarters, old mistakes. Sov.shakht. 10 no.4:34-35
Ap '61. (MIRA 14:9)

1. Redaktor shakhtnoy gazety "Slava Rodine" (for Vigdergauz).
2. Korrespondent zhurnala "Sovetskiy shakhter" (for Krylovskaya).
(Housing)

YASKOL'DOVICH, N.V.; GOLOVACH, N.N.

Induction vulcanizer. Ugol' 36 no.7:30 J1 '61. (MIRA 15:2)
(Vulcanization) (Coal mines and mining--Equipment and supplies)

Yaskolko, V. Ya.

USSR/Fitting Out of Laboratories -- Instruments, Their Theory, Construction,
and Use, H

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1325

Author: Nosenko, B. M., Revzin, L. S., and Yaskolko, V. Ya.

Institution: Academy of Sciences, Uzbek SSR

Title: Applications of CaSO_4Mn in Dosimetry

Original

Periodical: Dokl. AN UzSSR, 1956, No 4, 3-4 (Uzbek Summary)

Abstract: The possibility of the application of the phosphor $\text{CaSO}_4\text{-Mn}$ to the dosimetry of β and γ -radiation over a broad range of intensities has been investigated. $\text{CaSO}_4\text{-Mn}$ stores a considerable amount of light energy during cathode excitation and thermally radiates this energy, losing 30-50% of the total absorbed energy in 8 hours at an ambient temperature of 20-40°. The luminescence was recorded with a type FEU-19 photometer. The radiation dose was determined from the maximum photocurrent recorded during luminescence. For radiation doses of 0.005-40 roentgen the luminescence yield is proportional to the

Card 1/2

USSR/Fitting Out of Laboratories -- Instruments, Their Theory, Construction,
and Use, H

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1325

Abstract: radiation dosage; at higher dosages the luminescence yield decreases uniformly as the dose is increased. A drawback of the proposed phosphor is a loss in luminescence yield with time. The sensitivity of dosimeters using $\text{CaSO}_4\text{-Mn}$ is equal to that of dosimeters using Sr-S-Sm-Eu . The proposed phosphor has the advantage that it cannot store light energy under irradiation with visible light, does not require a special device for IR light and additional thermal luminescence, and does not require corrective lead shielding of the dosimeter.

Card 2/2

VASKOLKO, V. Ya.

27 19

Application of CaSO_4 as dosimeter. *U. S. Pat. 2,840,000*.
 S. Kozlov and V. Ya. Vaskolko. *Zhur.* *Pat. No. 2046*
 (1966). — The property of a phosphor of CaSO_4 Mg to
 accumulate light under cathodic and x-ray excitation, with
 subsequent thermal radiation, leads to its application as a
 dosimeter of β - and γ -radiation. Ag^{108} and Co^{60} were used for
 measurements of γ -radiation and W^{187} for β -radiation. No
 significant difference was obtained on comparing dosimeters
 contg. phosphor SrS , SrO , Ba with that contg. I. The ad-
 vantages of I were its insensitivity to visible light, thus elim-
 inating the necessity of shielding, no need for infrared
 light and addnl. thermal radiation, and the effective at. no.
 of CaSO_4 is closer to the effective at. no. of air than that of
 SrS . Dosimeter contg. I permitted detn. of higher doses vis-
 ually, by radiating it on a covered plate. Screens with I were
 used as dosimeters in work with radioactive substances and
 as exposure meters for γ -defectoscopy of photo and x-ray
 plates. Paul Polyzenko

ha
 pm
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 MT

YASKOLKO, V. YA.

51-4-8/26

AUTHORS: Nosenko, B. M., Revzin, L. S. and Yaskolko, V. Ya.

TITLE: On Phosphors Based on CaSO_4 . (O fosforakh na osnove CaSO_4).

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr. 4,
pp.345-350. (USSR)

ABSTRACT: The phosphor $\text{CaSO}_4\text{-Mn}$ was used to study far ultraviolet radiation of the sun (Ref.5). The property of storing the light-sum on excitation by short ultraviolet wavelengths and emitting it on heating, possessed by this phosphor, was found to be very useful. (Refs 5 and 7). The present authors found that $\text{CaSO}_4\text{-Mn}$ can store light-sum on excitation with electrons (cathodoluminescence), X-rays, β -rays and γ -rays. This property makes it possible to use the phosphor as a dosimeter of radioactive radiations. The present paper reports results of a more detailed investigation of the properties of $\text{CaSO}_4\text{-Mn}$, some of which have already been published (Refs. 8, 9). The emission spectrum on electron excitation was recorded by a spectrograph MCP-51.

and 1/5

51-4-8/26

On Phosphors Based on CaSO_4 .

Photometric measurements of spectrograms were carried out using a microphotometer MΦ-2. Pure CaSO_4 did not emit even when strong electron beams were directed on to it. Activation (from 0.1 to 10 mol.%) with Co, Fe, Mg, Tl, Ag, Pb, Zn, Ni and Mn made it possible to obtain emission in any region of the visible spectrum. Fine-grain structure, good binding properties and stability under ionic bombardment and thermal treatment, make CaSO_4 of special interest. Brightness of thermoluminescence of the phosphors studied was measured by means of photo-multiplier. The magnitude of the photo-current was recorded on a film, together with temperature of the screen to which the phosphor was attached. The stored light-sum was found by integration of the area under the thermoluminescence curves. All the phosphors prepared could store light energy on excitation with electrons, X-rays, β -rays and γ -rays, emitting this energy on heating. CaSO_4 -Mn was studied in greatest detail. Magnitude of the light-sum stored

Card 2/5

51-4-8/26

On Phosphor Based on CaSO_4 .

was no less than that stored on photo-excitation. On cathodo-excitation (i.e. by electrons) the light-sum stored depends on: duration of excitation, electron-current density and electron energy. At small charge densities produced by electrons the light-sum is approximately proportional to this charge density. At higher charge densities saturation of the light-sum occurs. At small charge densities the light-sum is also proportional to the electron energy, while in the region of saturation the light-sum varies as the square of the electron energy. If the phosphor is kept for a long time it gradually loses its stored light energy. An absolute value quoted by the authors for the light-sum stored on excitation with 5 keV energy is about 20 apostilb-minutes in the region close to saturation. The mechanism of the described storage effect in $\text{CaSO}_4\text{-Mn}$ is undoubtedly of a recombination type, since Lepper (Ref.11) has showed that capture centres belong to CaSO_4 lattice and are not due to the activator. To find whether the mechanism of emission is mono- or bimolecular, $\text{CaSO}_4\text{-Mn}$ was irradiated with β -rays from W^{185} and by

Card 3/5

51-4-8/26

On Phosphors Based on CaSO_4 .

Co^{60} γ -rays. The phosphor layer on the screen was 2-3 mg/cm^2 thick. The authors consider various criteria put forward in Refs. 13-15, and come to the conclusion that the emission mechanism in $\text{CaSO}_4\text{-Mn}$ is bimolecular. To test the $\text{CaSO}_4\text{-Mn}$ phosphor as a radioactive dosimeter it was deposited on metal screens in layers 2.6 mg/cm^2 thick, and was irradiated with γ -rays from Co^{60} and Ir^{192} , as well as with β -rays from W^{185} . The light-sum stored on irradiation with β - and γ -rays was recorded by means of a photo-multiplier $\phi\text{BY-19}$ and a galvanometer. From 0.005 to 50 rontgens the light-sum is proportional to the irradiation dose. At higher doses this proportionality is not obeyed, but saturation is not reached even at 1000 rontgens. The main disadvantage of the $\text{CaSO}_4\text{-Mn}$ phosphor as a dosimeter is its loss with time of the light energy stored. For durations of storage not greater than 8 hours, $\text{CaSO}_4\text{-Mn}$ is not inferior to SrS-Sm,Eu , and the accuracy of dosimeters made from $\text{CaSO}_4\text{-Mn}$ and SrS-Sm,Eu is of the same order. The advantages of $\text{CaSO}_4\text{-Mn}$ are as follows:

Card 4/5

51-4-8/26

On Phosphors Based on CaSO_4 .

(A) Inability to store light energy under the action of visible light. (B) No special apparatus is needed to remove the residual light energy before next use. (C) The effective atomic number of CaSO_4 is closer to the effective atomic number of air than that of SrS . The authors thank Professor S. V. Starodubtsev for help in this work. There are 17 references, 8 of which are Slavic.

ASSOCIATION: Asia
Central / State University imeni V. I. Lenin, Chair
of General Physics.
(Sredneaziatzkiy gosudarstvennyy universitet imeni
V. I. Lenina, Kafedra obshchey fiziki).

SUBMITTED: January 31, 1957; submitted to the Editor of "Izvestiya
AN SSSR" on December 8, 1956.

AVAILABLE: Library of Congress.

Card 5/5

YASKOLKO V. YA.

48-5-26/56

SUBJECT: USSR/Luminescence

AUTHORS: Nosenko B.M., Revzin L.S. and Yaskolko V. Ya.

TITLE: On Phosphors Based on CaSO_4 (O fosforakh naosnove CaSO_4)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #5, pp 691-692 (USSR)

ABSTRACT: Properties of phosphors based on CaSO_4 were studied at electronic excitation and also at gamma- and beta-irradiation. The thermal luminescence of CaSO_4 -Mn was investigated in detail. The activation of CaSO_4 by Co, Fe, Mg, Tl and Ag produced a weekly greenish luminescence, the activation by Pb produced dark blue, by Zn - sky-blue, by Ni - orange-red, and by Mn - bright light-green luminescence.

The CaSO_4 luminophore activated by any activator possessed thermal luminescence after electronic, gamma- and beta-excitation. The highest ability of storing was shown by CaSO_4 -Mn.

The CaSO_4 phosphor was used as a dosage meter. Dosages from

Card 1/2